



Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT -53 Grade

Lab ID : CP-2020-01-06-18 Date: 09-09-19
 Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
 Address : Yelahanka Sub Division, BBMP, Bangalore.
 Project Name : Maintenance of Existing Public Toilets in Ward No.02 of Yelahanka Sub Division
 Agency : Sri. B.R.Mohan No:10, 1st B Main, Chikkabommasandra Yelahanka, Bangalore-560064
 Customer's Reference : EE(YNK.D)E-PMT-07/W.O/137/2018-19
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 06-09-19
 Sample Type : Birla Super 53grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2,3,4,5, 6,11):1988
 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
 IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
 Date of test : 07-09-19
 Environmental Conditions during test : Temperature: 26°C
 Humidity: 72%

SL.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.64	—
2	Finess by Air permeability method (m ² /kg.Min)	278.4	225m ² /kg, Min
3	Density (gm/cc)	3.14	—
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	156 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	3mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
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 Quality Manager



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[Signature]
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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-01-06-18 Date: 09-09-19

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Existing Public Toilets in Ward No:02 of Yelahanka Sub Division

Agency : Sri. B.R.Mohan No:10, 1st B Main, Chikkabommasandra Yelahanka, Bangalore-560064

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/137/2018-19

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 06-09-19

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 06-09-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	579	579	3.9	96.1	90-100
3	20 mm	4899	5478	36.5	63.5	30-70
4	10 mm	7153	12631	84.2	15.8	10-35
5	4.75 mm	2218	14849	99.0	1.0	0-5
6	Pan	151	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-01-06-18 Date: 09-09-19
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Maintenance of Existing Public Toilets in Ward No:02 of Yelahanka Sub Division
Agency : Sri. B.R.Mohan No:10, 1st B Main, Chikkabommasandra Yelahanka, Bangalore-560064
Customer Reference : EE(YNK.D)E-PMT-07/W.O/137/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-09-19
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 06-09-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	199	199	4.0	96.0	90-100
3	10 mm	3168	3367	67.3	32.7	25-55
4	4.75 mm	1459	4826	96.5	3.5	0-10
5	Pan	174	5000	100	0	-

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-01-06-18 Date: 09-09-19
 Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
 Address : Yelahanka Sub Division, BBMP, Bangalore.
 Project Name : Maintenance of Existing Public Toilets in Ward No:02 of Yelahanka Sub Division
 Agency : Sri. B.R.Mohan No:10, 1st B Main, Chikkabommasandra Yelahanka, Bangalore-560064
 Customer's Reference : EE(YNK.D)E-PMT-07/W.O/137/2018-19
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 06-09-19
 Sample Type : Fine Aggregate
 Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
 IS: 2386 :1963(Part - 1, 3) RA2012
 IS 2386 Part 1: Particle Size and Shape
 IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
 Date of test : 06-09-19
 Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	29	29	2.9	97.1	90-100	90-100	90-100	95-100
3	2.36 mm	54	83	8.3	91.7	60-95	75-100	85-100	95-100
4	1.18 mm	237	320	32.0	68.0	30-70	55-90	75-100	90-100
5	600 micron	212	532	53.2	46.8	15-34	35-59	60-79	80-100
6	300 micron	228	760	76.0	24.0	5-20	8-30	12-40	15-50
7	150 micron	173	933	93.3	6.7	0-10	0-10	0-10	0-15
8	Pan	67	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 19-09-19

Lab ID : CP-2020-01-06-18
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Maintenance of Existing Public Toilets in Ward No:02 of Yelahanka Sub Division
Agency : Sri. B.R.Mohan No:10, 1st B Main, Chikkabommasandra Yelahanka, Bangalore-560064
Customer's Reference : EE(YNK.D)E-PMT-07/W.O/137/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-09-19
Sample Type/Size : Solid concrete blocks size (400X150X200)mm
Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1: Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test : 16-09-19

BLOCK DENSITY:

SL No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg. Block Density in (Kg/cum)	As per IS 2185(Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	400	151	203	12261	32.216	2627.5	2687.6	Not less than 1800Kg/m ³
2	402	149	201	12039	33.607	2791.4		
3	400	152	202	12282	32.470	2643.8		

WATER ABSORPTION:

SL No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg. Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2020-01-06-18 Date: 11-09-19

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Existing Public Toilets in Ward No:02 of Yelahanka Sub Division

Agency : Sri. B.R.Mohan No:10, 1st B Main, Chikkabommasandra Yelahanka, Bangalore-560064

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/137/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 10-09-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

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Quality Manager



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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/09/2019

Lab ID : CP-2020-01-06-18
 Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
 Address : Yelahanka Sub Division, BBMP, Bangalore.
 Project Name : Maintenance of Existing Public Toilets in Ward No:02 of Yelahanka Sub Division
 Agency : Sri. B.R.Mohan No:10, 1st B Main, Chikkabommasandra Yelahanka, Bangalore-560064
 Customer's Reference : EE(YNK.D)E-PMT-07/W.O/137/2018-19
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 14-09-19
 Customer ID : RMC
 Sample Type /Size : 150X150X150 mm
 Sample grade/Age : M20 / 7 Days Compressive Strength
 Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5

Date of test : 19/09/2019

Date of test					19/09/2019						
SL. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength	
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)	
1	RMC	M20	12/09/2019	19/09/2019	151.40 X	22681	8.836	428.0	18.9	18.6	
					149.81 X						
					150.82						
2	RMC	M20	12/09/2019	19/09/2019	151.72 X	22923	8.272	415.2	18.1		
					151.09 X						
					151.30						
3	RMC	M20	12/09/2019	19/09/2019	149.59 X	22657	8.528	427.8	18.9		
					151.46 X						
					149.89						

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 Quality Manager



TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/10/2019

Lab ID : CP-2020-01-06-18
 Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
 Address : Yelahanka Sub Division, BBMP, Bangalore.
 Project Name : Maintenance of Existing Public Toilets in Ward No.02 of Yelahanka Sub Division
 Agency : Sri. B.R.Mohan No:10, 1st B Main, Chikkabommasandra Yelahanka, Bangalore-560064
 Customer's Reference : EE(YNK.D)E-PMT-07/W.O/137/2018-19
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 14-09-19
 Customer ID : RMC
 Sample Type /Size : 150X150X150 mm
 Sample grade/Age : M20 / 28 Days Compressive Strength
 Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5
 Date of test : 10/10/2019

Date of test : 10/10/2019										
SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	RMC	M20	12/09/2019	10/10/2019	149.79 X	22758	8.769	528.4	23.2	23.3
					151.93 X					
					150.70					
2	RMC	M20	12/09/2019	10/10/2019	149.31 X	22544	8.592	512.3	22.7	
					150.99 X					
					150.62					
3	RMC	M20	12/09/2019	10/10/2019	149.63 X	22348	8.584	532.9	23.8	
					149.35 X					
					150.19					

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**TEST REPORT FOR SAND MASONRY MORTARS**

Date: 28-09-19

Lab ID : CP-2020-01-06-18

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Existing Public Toilets in Ward No:02 of Yelahanka Sub Division

Agency : Sri. B.R.Mohan No:10, 1st B Main, Chikkabommasandra Yelahanka, Bangalore-560064

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/137/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-09-19

Sample Type : Fine Aggregate, M.Sand for Mortar

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 25-09-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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Format No: CP/TF/2017

TEST REPORT FOR PLASTER SAND

Lab ID : CP-2020-01-06-18 Date: 24-09-19

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Existing Public Toilets in Ward No:02 of Yelahanka Sub Division

Agency : Sri. B.R.Mohan No:10, 1st B Main, Chikkabommasandra Yelahanka, Bangalore-560064

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/137/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-09-19

Sample Type : Plaster Sand

Reference to BIS codes : IS: 383 : 2016 (Specification for Coarse and fine Aggregates)
IS1542:1992 (Sand for Plaster - Specification)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 20-09-19

Total weight taken : 1000 grams

SLno	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID

:

CP-2020-01-06-18

Date: 24-09-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	-
2	Specific Gravity	2.56	-
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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